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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	477000		
09/900,840	07/06/2001		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
		Steven M. Strandberg	К0480/7003 ЈН	7823	
23628 7	590 11/06/2003				
WOLF GREE	ENFIELD & SACKS, PC	EXAMINER			
FEDERAL RESERVE PLAZA			ARBES, CARL J		
600 ATLANTI	CAVENUE				
BOSTON, MA	02210-2211	•	ART UNIT	PAPER NUMBER	
	- 0210 2211	•	3729		
			DATE MAILED: 11/06/2003	(3	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No	n. —	Applicant(s)	
) P					
Office Action S	09/900,840		STRANDBERG ET AL.		
Office Action S	ummary	Examiner		Art Unit	
T. MAII INO DATE		C. J. Arbes		3729	
The MAILING DATE of Period for Reply	this communication a	ppears on the cov	er sneet with the	corresp ndence address	
A SHORTENED STATUTOR THE MAILING DATE OF TH - Extensions of time may be available us after SIX (6) MONTHS from the mailin - If the period for reply specified above in - If NO period for reply is specified above - Failure to reply within the set or extend - Any reply received by the Office later to earned patent term adjustment. See 3	IS COMMUNICATION nder the provisions of 37 CFR ag date of this communication. is less than thirty (30) days, a reve, the maximum statutory perioded period for reply will, by state than three months after the main	N. 1.136(a). In no event, ho reply within the statutory n od will apply and will expire tute, cause the application	wever, may a reply be ninimum of thirty (30) do not be SIX (6) MONTHS from to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communic NED (35 U.S.C. § 133).	cation.
1) Responsive to commi	unication(s) filed on <u>1</u>	<u>8 August 2003</u> .			
2a) This action is FINAL .	2b)⊠ ⁻	This action is non-	-final.		
3) Since this application closed in accordance Disposition of Claims		-		prosecution as to the mer 453 O.G. 213.	its is
4)⊠ Claim(s) <u>1-70</u> is/are p	ending in the applicati	ion.			
4a) Of the above claim	(s) <u>55-63</u> is/are withdr	awn from conside	ration.		
5) Claim(s) is/are	allowed.				•
6)⊠ Claim(s) <u>1-54 and 64-7</u>	<u>70</u> is/are rejected.				
7) Claim(s) is/are	objected to.				
8) Claim(s) are sul	oject to restriction and	l/or election requir	ement.		
Application Papers					
9) The specification is object	ected to by the Exami	ner.			
10) ☐ The drawing(s) filed on	is/are: a) ac	cepted or b)☐ obje	cted to by the Ex	aminer.	
Applicant may not requ	est that any objection to	the drawing(s) be h	eld in abeyance.	See 37 CFR 1.85(a).	
11) The proposed drawing of	correction filed on	is: a) appro	ved b) disapp	roved by the Examiner.	-
<u> </u>	Irawings are required in	. ,	action.		
12) The oath or declaration	is objected to by the l	Examiner.			
Priority under 35 U.S.C. §§ 119	and 120				
13) Acknowledgment is ma	ade of a claim for fore	ign priority under	35 U.S.C. § 119	(a)-(d) or (f).	
a)□ All b)□ Some * c)	☐ None of:				
1. Certified copies	of the priority docume	ents have been red	ceived.		
2. Certified copies	of the priority docume	ents have been red	ceived in Applica	ition No	
•	rom the International I	Bureau (PCT Rule	: 17.2(a)).	ved in this National Stage ved.)
14) Acknowledgment is mad	le of a claim for dome	stic priority under	35 U.S.C. § 119	(e) (to a provisional appli	cation).
a) The translation of to 15) Acknowledgment is made	• • • • •	• •			
Attachment(s)					
1) Notice of References Cited (PTO-2) Notice of Draftsperson's Patent Dr. 3) Information Disclosure Statement(rawing Review (PTO-948)	4) [5) [) <u>8.</u> . 6) [–	ary (PTO-413) Paper No(s)	
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office	Action Summary		Part of Paper No. 11	

Application/Control Number: 09/900,840

Art Unit: 3729

Applicants' Response to the office's Restriction which was mailed on or about 16 July 2003 has been duly noted. After carefully reviewing the Office's Restriction and Applicants' Response thereto, the Office concludes that the Restriction was and continues to be correct and proper. In view of this holding and further in view of Applicants' response thereto the Restriction is hereby and now **made Final**.

Applicants therefore are required to cancel all non-elected claims or take other appropriate action.

An Office Action of the merits of Claims 1-54 and 64-70 now follows.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 8, 13, 15, 64 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Bloom; Pat No. 5,815,619; hereinafter '619.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-7, 9-12, 14, 16-54 and 65-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over the '619.

Application/Control Number: 09/900,840

Art Unit: 3729

The '619 teaches an automatic assembly and inspection system for connecting a connector to a portion of a fiber wherein an exposed region of an optical cable is attached to a ferrule having a through bore. Molten metal is placed between the ferrule and an exposed portion of the optical fiber. Figure 3 is a Diagram of the overall system for automatic fabrication of the fiber optic device. The optical fiber is secured to a stationary gripping device and it can be moved along a predetermined path in order to position the optical fiber with respect to clamping devices. Once the optical fiber is clamped for fabrication an optical device can be formed. Once the optical device is formed the optical device can be terminated. The terminating assembly includes a plicer/cutter, a ferrule or connector feeder, a clamp and an alignment collar. The clamp is movable in three axes and is moved to clamp onto the optical fiber. The clamp then moves the optical fiber into engagement with the splicer/cutter which cuts the optical fiber. A connector is moved by a clamp from a connector feeder into a receiving position adjacent to and aligned with the splicer/feeder. An alignment collar is then moved into position for receiving and guiding the cut optical fiber into the connector. The splicer/cutter is removed and the clamp moves the cut end through the alignment collar and into the through bore. A self centering mold is used to allow molten metal to bond the connector and the optical fiber together. A sealant such as RTV silicone or an UVcured acrylate can also be used to bond the ferrule and the exposed portion of the optical fiber. (Cf. Col 5) As applied to Claims 6, 29 and 67 It would have been obvious to one of ordinary seal in this art to provide an adhesive dispenser if in fact the '619 does not teach providing one inasmuch as Bloom does use an adhesive as a bonding

Application/Control Number: 09/900,840

Art Unit: 3729

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material an therefore in most all likelihood would have a dispenser in order to dispense the adhesive. As applied to Claim 9 it would have been obvious to include an orienter system that is responsive to a control signal because in this manner the connector would be positioned onto the optical fiber with increased efficiency and hence at lowered costs. The '619 further teaches that the optical fiber system is automated and therefore this would imply there was an orienter system and that it would be responsive to a control system. Similarly as applied to Claim 10 it would have been obvious to include a chuck with the chuck being moveably responsive to a control signal. By providing that the chuck would be responsive to a control signal, the connector would be positioned onto the optical fiber with increased efficiency and hence at lowered costs.

Claims 1-54 and 64-70 are further rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al.

Song et al teach a system for aligning and attaching optical fibers to optical wave guides. Service and alignment robots couple a wave guide and an optical fiber together. The service robot establishes the three dimensional position of the wave guide and the alignment robots three dimensionally align the input and outputs fibers to the legs of the wave guide. A vacuum holder is used to hold and rotate the optical fiber for polarization purposes. Precise alignment between optical wave guides and optical fibers is achieved by using a goniometer. An adhesive is used to cover an end of the optical fiber uniformly. A clamp is used to tangentially support the optical fiber. It is held to have been obvious to place a connector rather than a wave guide onto the end of the optical fiber. The examiner reserve the right to explain each and every limitation which

Page 5

Application/Control Number: 09/900,840

Art Unit: 3729

Applicants' draw in their many claims. For example Song does teach (a) that the service robot is capable of movement in 3 dimensions, that (b) the alignment robot is not only capable of movement in 3-dimensional but also can rotate, that (c) that detectors can operate to optimize fiber position, (d) adhesive dispenser labeled as Numeral 830; and many more specific parts and elements which are expressly or impliedly taught by Song et al

Any inquiry concerning this communication should be directed to C. J. Arbes at telephone number (703)308-1857.

CARL J. ARBES
PRIMARY EXAMINER